

light deflecting means disposed between said first projection optical system and said second projection optical system for deflecting the light emerging from said first projection optical system to the second projection optical system;

wherein said light deflecting means has a diffractive optical element, and said diffractive optical element has a diffracting portion sandwiched between a pair of transparent plates.

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2. (Amended) A projection type display apparatus according to claim 1, wherein said light deflecting means is disposed on said predetermined plane.

3. (Amended) A projection type display apparatus according to claim 1, wherein said light deflecting means is constituted by a transmission type diffractive optical element.

4. (Amended) A projection type display apparatus according to claim 1, wherein said light deflecting means is constituted by a reflection type diffractive optical element.

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7. (Amended) A projection type display apparatus according to claim 1, wherein said plane for display has an eccentric Fresnel lens.

8. (Amended) A projection type display apparatus according to claim 1, wherein said plane for display has a plurality of eccentric Fresnel lenses.

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9. (Amended) A projection type display apparatus according to claim 1, wherein said plane for display has a lenticular lens.

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11. (Twice Amended) A projection type display apparatus according to claim 1, further comprising a plurality of reflecting mirrors which are so disposed to be parallel with the plane for display.

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12. (Amended) A projection type display apparatus according to claim 1, which is of a rear projection type projecting an image from the rear onto the plane for display.

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13. (Amended) A projection type display apparatus comprising:

a first projection optical system for obliquely projecting light from an original onto a predetermined plane, said first projection optical system forming an intermediate image of the original on said predetermined plane;

a second projection optical system for obliquely projecting the light from said predetermined plane onto a plane for display; and

wherein an optical axis of said first projection optical system is bent by using a diffractive optical element to substantially coincide with an optical axis of said second projection optical system, said diffractive optical element having a diffracting portion sandwiched between a pair of transparent plates.